

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
11 August 2005 (11.08.2005)

PCT

(10) International Publication Number  
**WO 2005/072371 A2**

(51) International Patent Classification: Not classified

(72) Inventors; and

(21) International Application Number:

PCT/US2005/002522

(75) Inventors/Applicants (for US only): DEFREES, Shawn  
[US/US]; 126 Filly Drive, North Wales, PA 19454 (US).  
BOWE, Caryn [US/US]; 276 Cherry Lane, Doylestown,  
PA 19044 (US).

(22) International Filing Date: 26 January 2005 (26.01.2005)

(74) Agent: MANN, Jeffrey, S.; Morgan, Lewis & Bockius LLP,  
2 Palo Alto Square, 3000 El Camino Real, Suite 700, Palo  
Alto, CA 94304 (US).

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/539,387	26 January 2004 (26.01.2004)	US
60/544,411	12 February 2004 (12.02.2004)	US
60/546,631	20 February 2004 (20.02.2004)	US
60/555,504	22 March 2004 (22.03.2004)	US
60/570,891	12 May 2004 (12.05.2004)	US
60/590,649	23 July 2004 (23.07.2004)	US
60/590,573	23 July 2004 (23.07.2004)	US
60/592,744	29 July 2004 (29.07.2004)	US
60/611,790	20 September 2004 (20.09.2004)	US
60/614,518	29 September 2004 (29.09.2004)	US
60/623,387	29 October 2004 (29.10.2004)	US
60/626,678	9 November 2004 (09.11.2004)	US
10/997,405	24 November 2004 (24.11.2004)	US
PCT/US04/03971	24 November 2004 (24.11.2004)	US
PCT/US04/40709	3 December 2004 (03.12.2004)	US
60/641,956	6 January 2005 (06.01.2005)	US
60/643,347	10 January 2005 (10.01.2005)	US
PCT/US05/00799	10 January 2005 (10.01.2005)	US

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished  
upon receipt of that report

(71) Applicant (for all designated States except US): NEOSE  
TECHNOLOGIES, INC. [US/US]; 102 Witmer Road,  
Horsham, PA 19044 (US).

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: BRANCHED POLYMERIC SUGARS AND NUCLEOTIDES THEREOF

(57) Abstract: The present invention provides sugars, nucleotide sugars, activated sugars that include one or more polymeric mod-  
ifying moiety within their structure. The invention is exemplified by reference to linear and branched polymers, such as the wa-  
ter-soluble polymer poly(ethylene glycol).



WO 2005/072371 A2